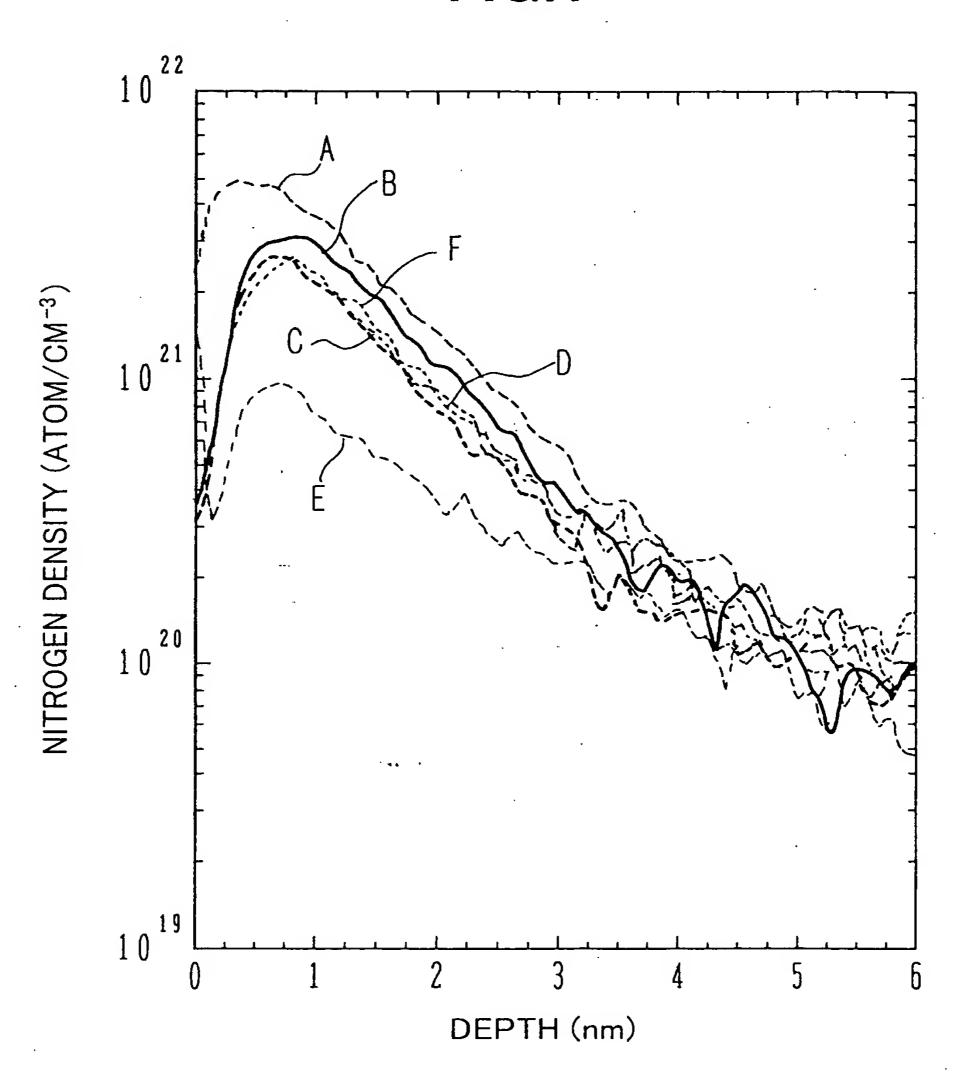
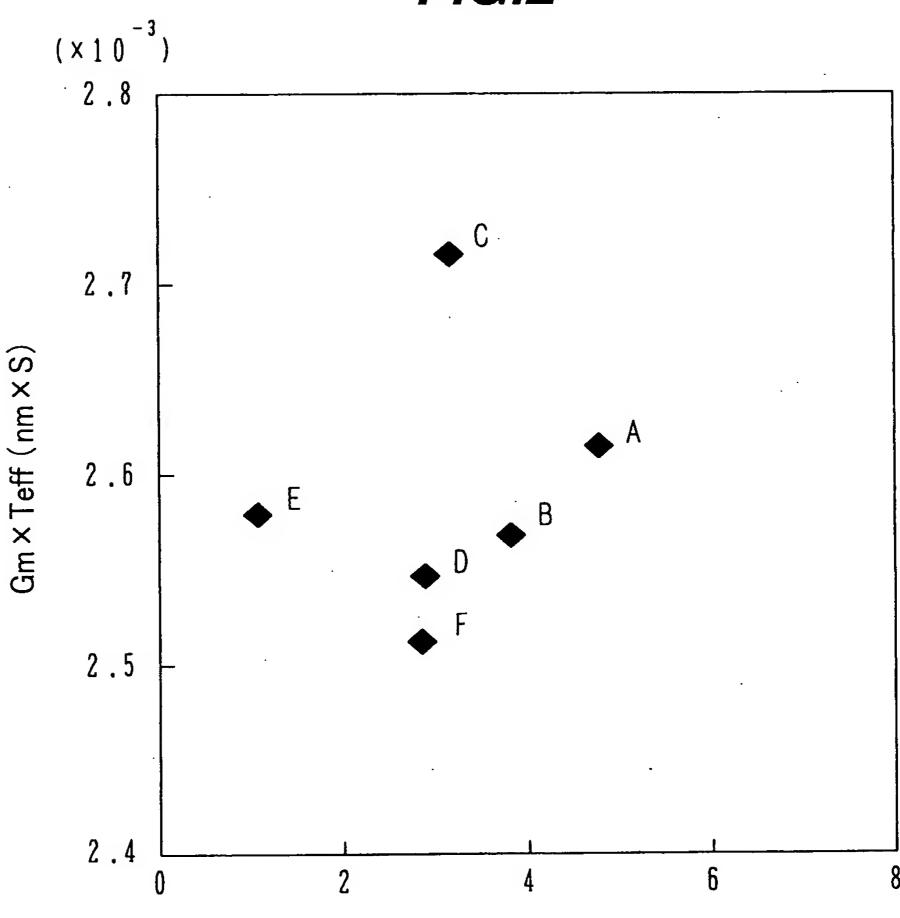
FIG.1

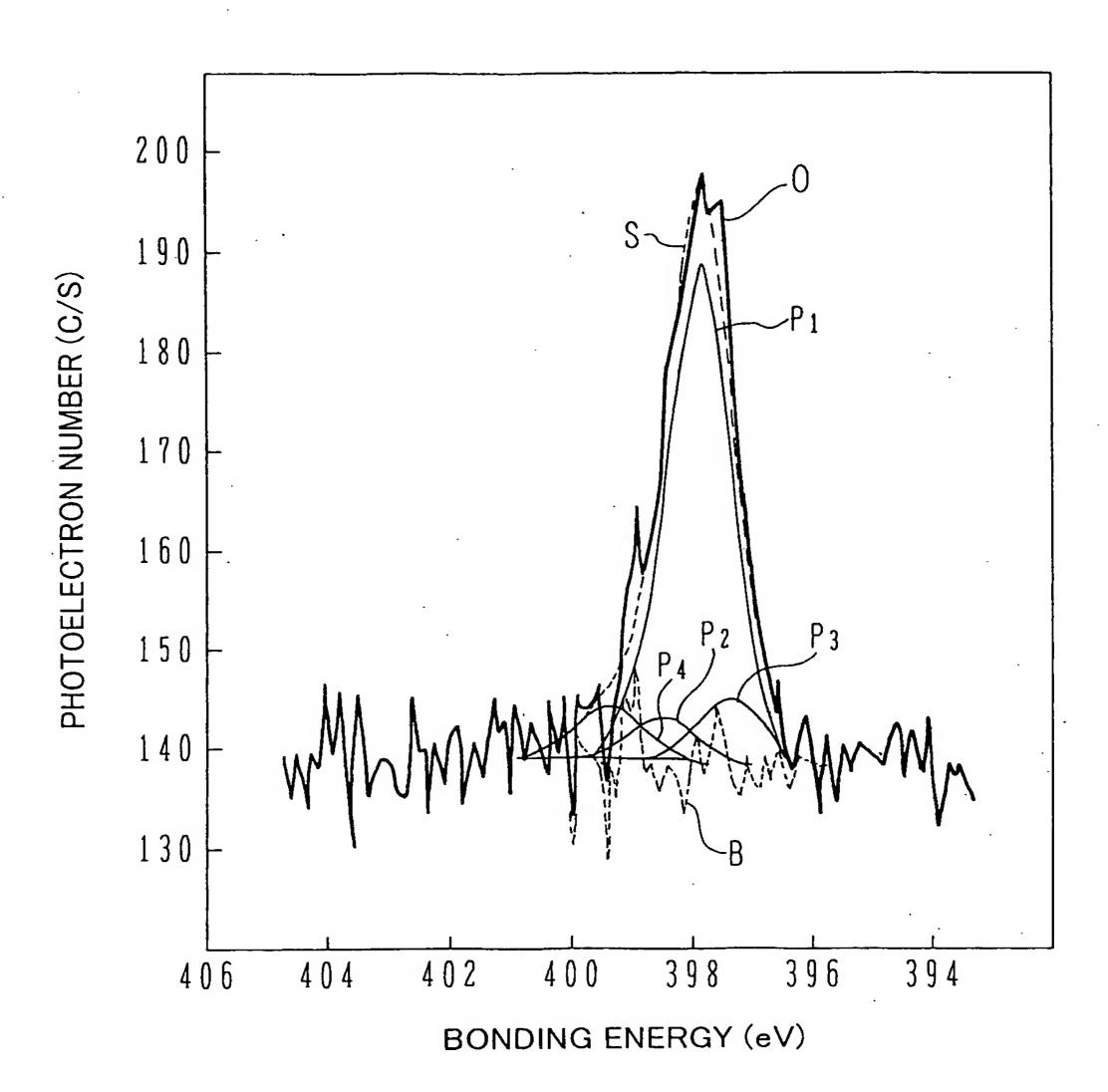




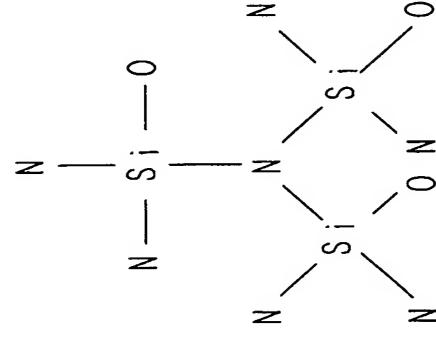


INTERFACIAL NITROGEN DENSITY (atomic %)

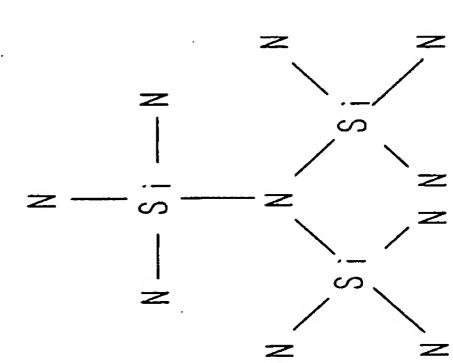
FIG.3



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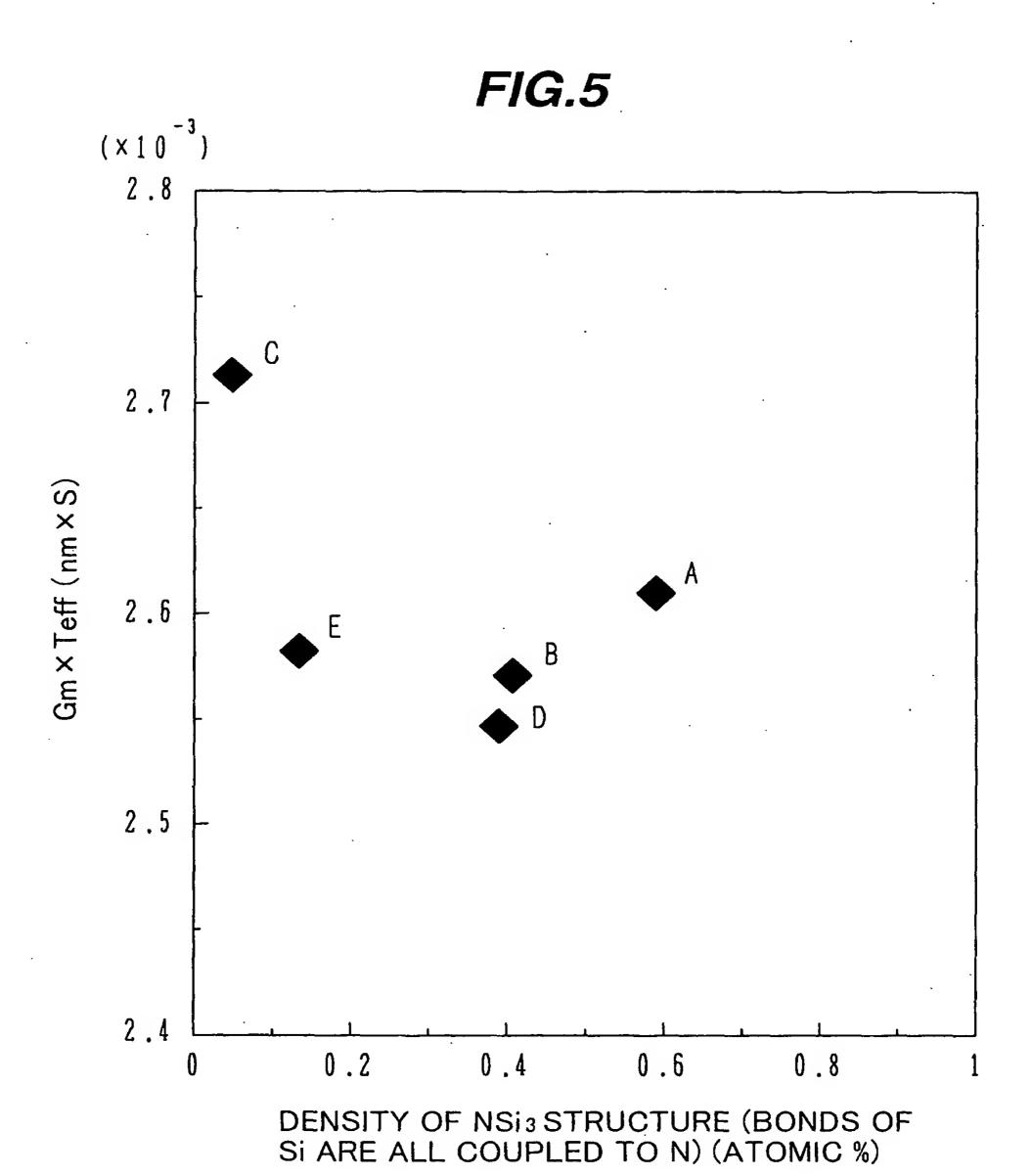
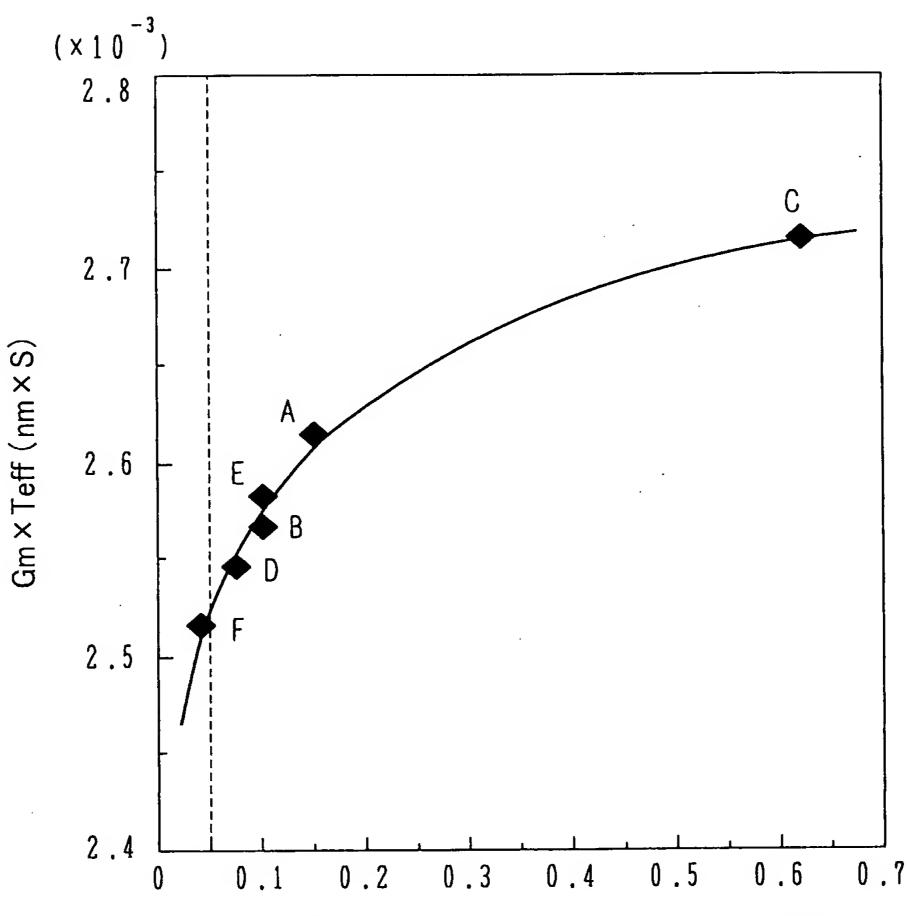
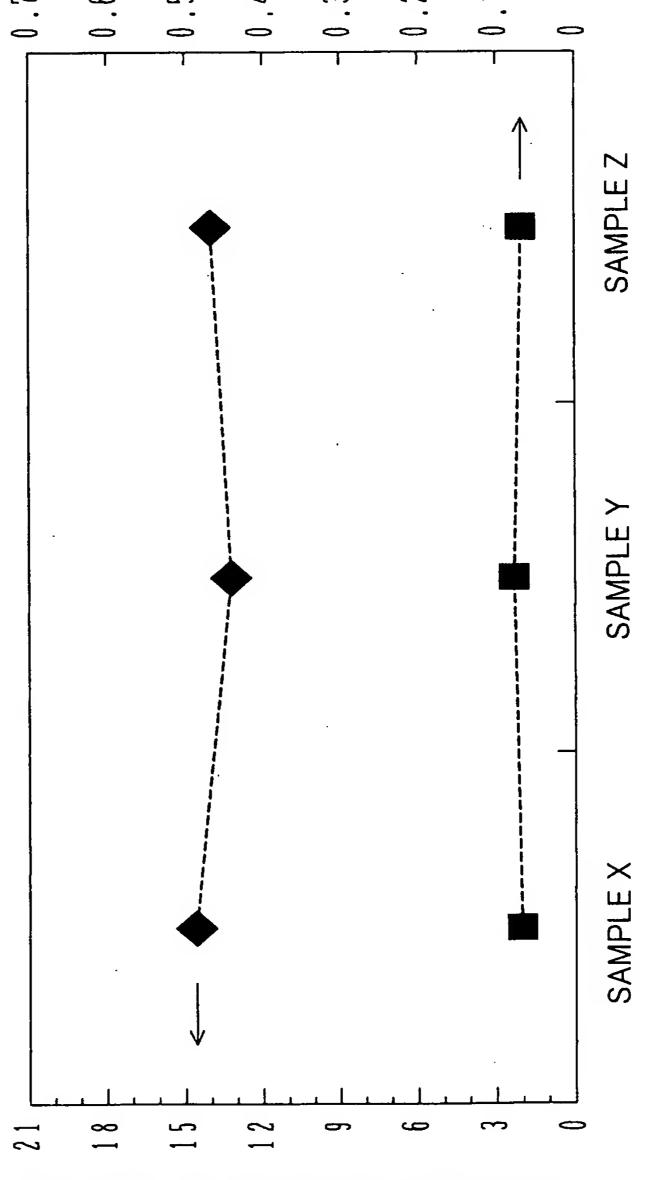


FIG.6



INVERSE OF EXISTENCE RATIO OF NSi₃ STRUCTURE (BONDS OF Si ARE ALL COUPLED TO N) TO TOTAL NUMBER OF NITROGEN ATOMS

INVERSE OF EXISTENCE RATIO OF NSi3STRUCTURE (BONDS OF SI ARE ALL COUPLED TO N) TO TOTAL NUMBER OF NITROGEN ATOMS



EXISTENCE RATIO OF NSi3 STRUCTURE (BONDS OF Si ARE ALL COUPLED TO N) TO TOTAL NUMBER OF NITROGEN ATOMS

FIG.8A

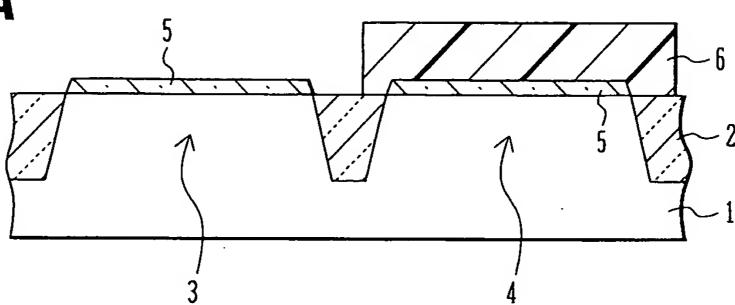


FIG.8B

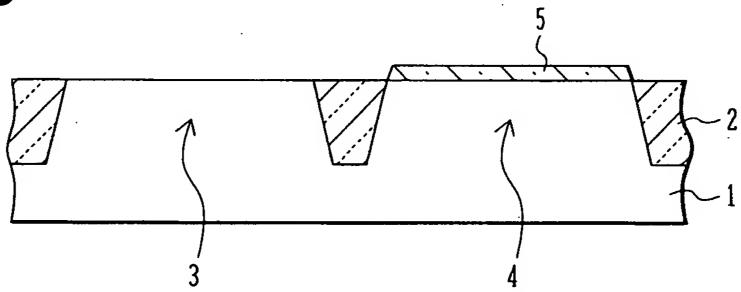


FIG.8C

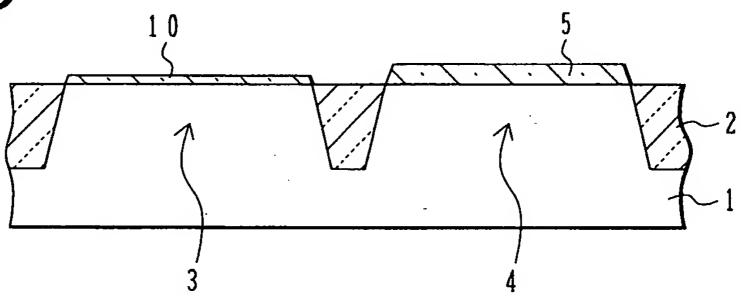


FIG.8D

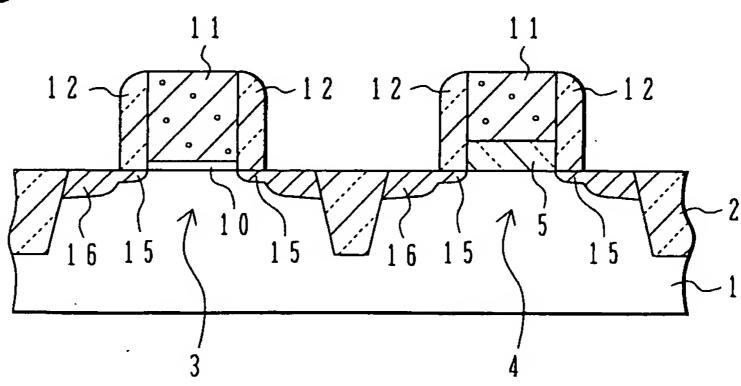


FIG.9

